

BELL'S
HURCAN
(Regd.)
Concrete and Asbestos
BUILDING SLABS



SOLE MANUFACTURERS:

BELL'S UNITED ASBESTOS CO., LTD.
PIONEERS OF THE WORLD'S ASBESTOS INDUSTRY

Established 1871

SOUTHWARK STREET, LONDON, S.E.1

Telephone: HOP 4040 (4 lines).

Telegrams: "BELFRY, LONDON"

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BELL



We beg to inform our clients that the Local Government Board (Ministry of Health) has inspected our "HURCAN" building materials, and sanctioned their adoption in connection with State-aided Housing Schemes.

Consequently we are laying down plant with all possible speed with a view to manufacturing "HURCAN" materials on a large scale and offering them for sale to building contractors and users.

Our "HURCAN" slab differs widely from the ordinary concrete block or slab in that it is impervious to moisture, and possesses a finely finished surface of asbestos-cement sheet to which the concrete backing is applied in manufacture. The Asbestos portion is actually combined with the concrete (not merely forming an attached skin) and is carried round the edges, thus effectively sealing the otherwise porous concrete and materially reinforcing the slab itself.

In forming the shell of a building, "HURCAN" slabs may be erected with a skeleton steel framing, in which the slabs are fixed, having the finished asbestos face both externally and internally. In such cases the space between the outer and inner slabs (which thus form the finished wall surfaces without plaster or rough cast) is filled with rough concrete, giving any desired thickness of wall.

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This method was adopted by us in the case of a pair of experimental cottages erected near our works at Harefield. These particular cottages have been inspected by an official from the Ministry of Health, by several eminent architects and building contractors, and all concerned have been highly satisfied as to the all-round efficiency of "HURCAN" materials. Their appearance is good, durability is assured, they are weatherproof, cheap and quick to erect.

In another form, and particularly for Factory Construction, the "HURCAN" slabs are erected between grooved brick or concrete pillars having an air space of any desired width. In our latest method, as illustrated on the opposite page, both steelwork and piers are eliminated by forming the "HURCAN" slabs with distance lugs on the back, which method results in a true air-cell shell for the building.

This latter type is the cheapest and in many cases preferable, giving as it does a flat, smooth exterior and interior finish. In all cases the "HURCAN" slabs are jointed with a thin cement grout.

For general guidance, the preliminary price of "HURCAN" slabs is 38 to 42 pence per square yard (single thickness), or equivalent to 6/4 to 7/- per square yard of walling (plus labour).

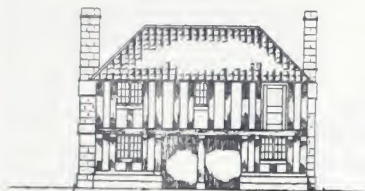
We invite all intending builders, and especially those who are on the lookout for an efficient and economical substitute for brick, to place their names on our register, together with particulars as to their possible requirements for next Spring. We will then keep them specially posted as to when "HURCAN" materials will be placed on the market, and reserve for them the earliest deliveries.



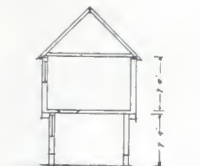
EXHIBITION COTTAGE
CONSTRUCTED OF
HURCAN SLABS
POILITE SHEETS
AND PANTILES.
AT OLYMPIA.
FEB. 1920.
BY MESSRS. BELL'S
UNITED ASBESTOS
COMPANY.

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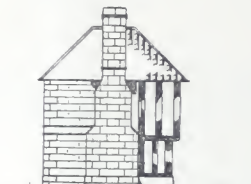
— COTTAGE AT THE IDEAL HOME EXHIBITION. — OLYMPIA, FEB' 1920 —
 FOR BELL'S UNITED ASBESTOS COMPANY LIMITED



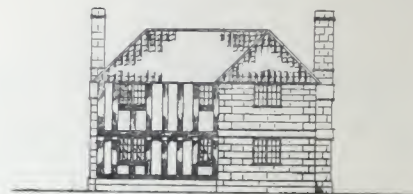
SOUTH ELEVATION



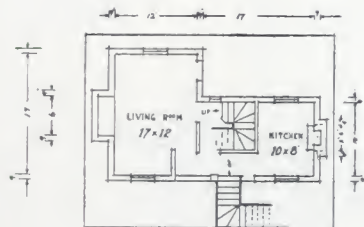
SECTION



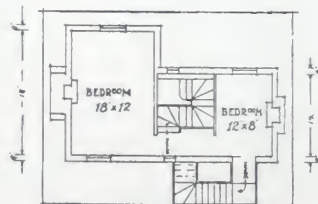
WEST ELEVATION



NORTH ELEVATION



GROUND FLOOR PLAN



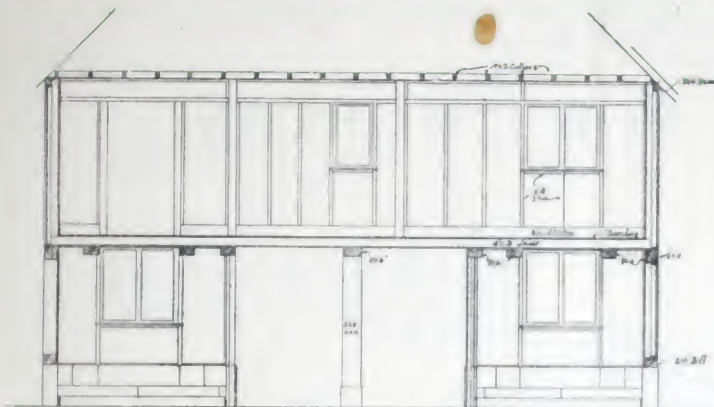
FIRST FLOOR PLAN



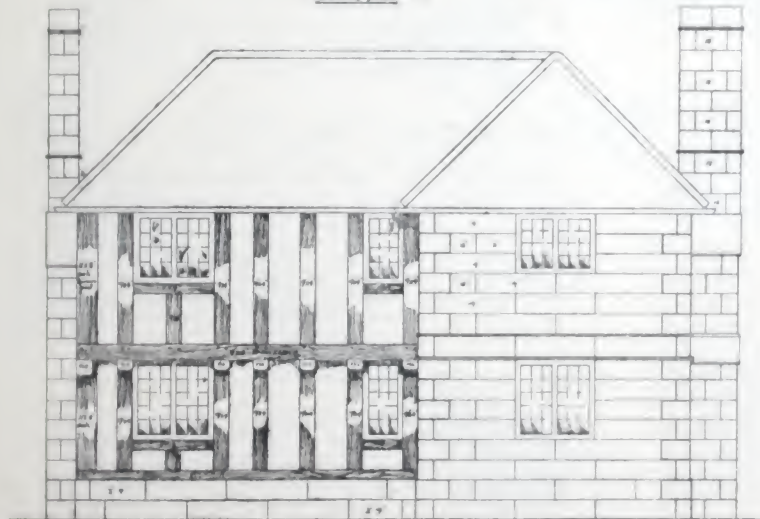
EAST ELEVATION

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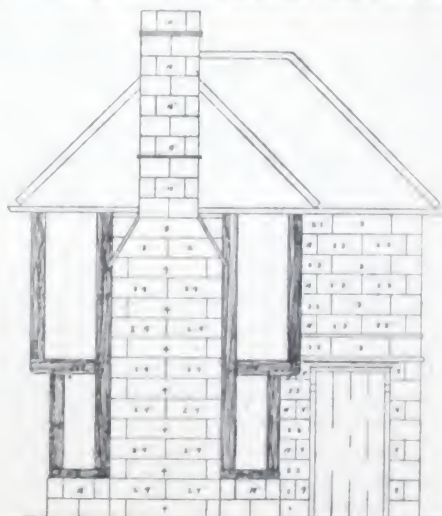
—SECTION—



—NORTH ELEVATION—

DETAILS OF COTTAGE
AT THE
IDEAL HOME EXHIBITION
FEB. OLYMPIA 1920

NOTE—All Timber Framing to be properly mortised and tenoned together and pinned at each joint with two 1" dia. oak treenail projecting 2" from face of framing. All Sills, Transoms and Heads to be halved together and secured as necessary. A fillet will be planted on side of timber to receive Pours, which will be secured externally by 1" x 2" planted on side of timber and set back 1/2" from face of same. 4" x 2" studding will be affixed internally to the framing as necessary to receive internal Pours, the joint of which will be covered with 2" by 2" fillet. 1" x 1" will be planted on side of first floor beams, kept 1/2" down from top face to receive Pours before the counter joists are fixed.



—EAST ELEVATION—

BELL'S UNITED ASBESTOS CO., LTD., SOUTHWARK STREET, LONDON, S.E.1

THE CASE FOR "HURCAN"

USE "HURCAN" SLABS AND REDUCE THE LABOUR COST TO A MINIMUM

The cost of labour to-day is the main obstacle to building, labour must therefore be assisted as far as possible. The "HURCAN" Slab can be laid almost as quickly as a brick, but the average slab is equal to sixteen bricks.

"HURCAN" SLABS v. CONCRETE BLOCKS

Concrete block buildings are more quickly erected than brickwork, but they are cheaper only when the ballast is available on the site, and then there is the labour cost of casting them.

Bell's "HURCAN" is delivered to you ready for erection, which is effected more quickly than in the case of concrete blocks owing to its comparative lightness.

Concrete is porous! "HURCAN" is absolutely impervious. Concrete always retains the cold grey colour of cement; "HURCAN," although always increasing in strength, owing to the Asbestos-Cement facing, soon weathers, giving pleasant warm tones and colour contrasts.

WEIGHT

Owing to the impervious asbestos-cement face of "HURCAN," it is possible to reduce the thickness of the slab to a minimum, thus reducing freightage and handling costs.

STABILITY

Stability is ensured by means of the lugs at the back of the slab; these afford good hold for the wall ties, producing a result as rigid as the ordinary eleven-inch cavity wall for two storey buildings.

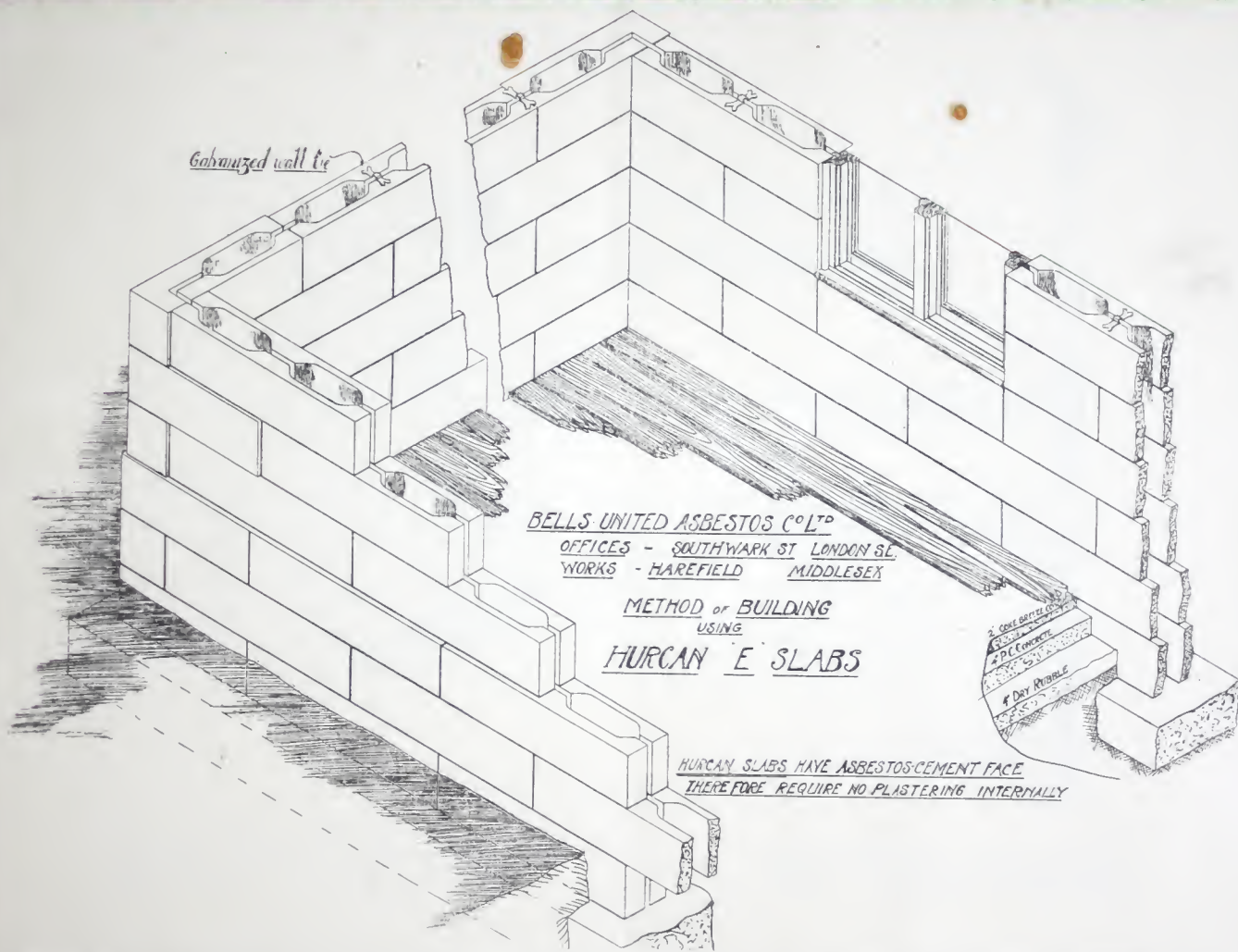
ARCHITECTURAL TREATMENT

The finest architectural buildings are carried out in dressed stonework. Bell's "HURCAN" provides the same possibility of bold treatment owing to the massive proportions of the slabs. Bell's "POILITE" is admirably adapted for use in conjunction with "HURCAN" to form such features as string courses, rusticated work, neckings, labels, sills, copings, and drip courses.

WHAT IS "HURCAN"?

Reinforced concrete is admittedly the most efficient modern building material. "HURCAN" is concrete reinforced with asbestos-cement which also renders it fireproof and impervious to weather. "HURCAN" is therefore the ideal material for building the Ideal Home.

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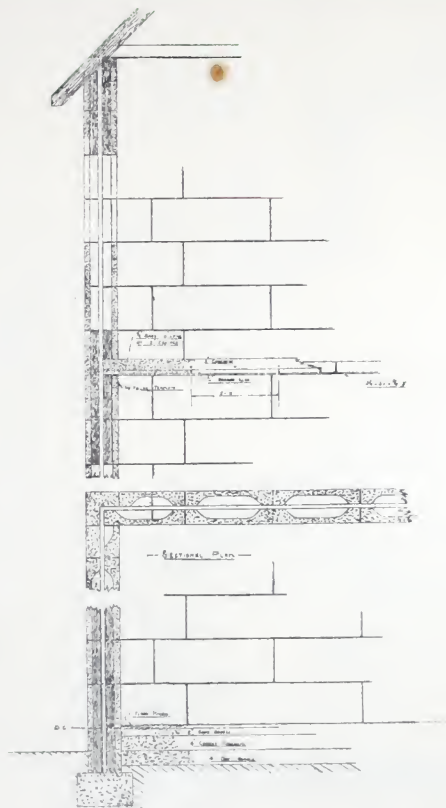
OFFICES - SOUTHWARK ST LONDON S.E.
WORKS - HAREFIELD MIDDLESEX

METHOD OF BUILDING
USING

HURCAN E SLABS

HURCAN SLABS HAVE ASBESTOS CEMENT FACE
THEREFORE REQUIRE NO PLASTERING INTERNALLY

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SECTION OF WALLING CONSTRUCTED
WITH BELL'S "HURCAN" "E" SLABS.

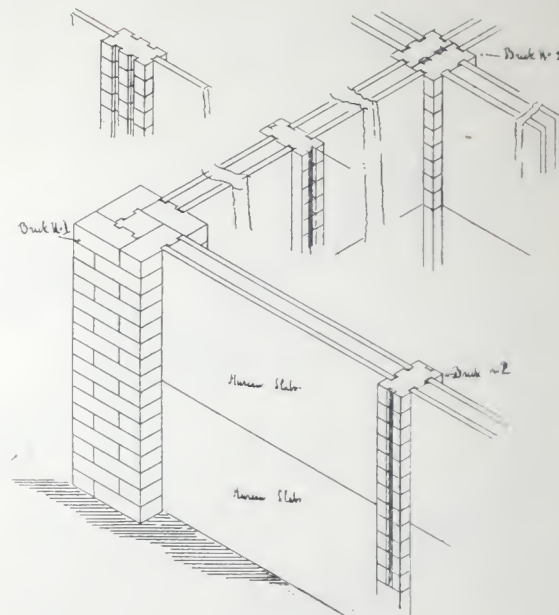


DIAGRAM SHEWING LOVELL'S R.S.C.
BRICKS AS APPLIED TO BELL'S "HURCAN"
SLABS FOR FACTORY CONSTRUCTION.

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"HURCAN" SLABS FOR FACTORY CONSTRUCTION

Plain "HURCAN" slabs (*i.e.*, without distance lugs) in combination with Lovell bricks, provide a material for factory buildings unequalled for speed of erection and give an efficient and economical walling.

Lovell bricks, primarily designed for use with "HURCAN" slabs, have distinct advantages over any other brick on the market for this form of construction, which, as will be seen from the illustration on previous page, saves material, transport and freight. Lovell bricks, which are the same size as Flettons or Stocks, provide good bond, and simplify building in doors and window frames. Many varieties of design with "HURCAN" slabs in conjunction with Lovell bricks are at the disposal of the architect and builder.

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BELL'S "POILITE"

Asbestos-Cement

FLAT BUILDING SHEETS

(May be used in conjunction with "HURCAN" Slabs)

Standard sizes, 8 ft. x 4 ft., 6 ft. x 4 ft., 4 ft. x 4 ft., $\frac{3}{16}$ in. thick and upwards.

Bell's "POILITE" Sheets are impermeable and fire-resisting, rot and vermin-proof, and excellent non-conductors of heat and cold. These qualities render them an ideal material for external and internal linings for walls, partitions and ceilings for either Industrial or Domestic Buildings.

Factories, Cottages, Motor Garages, Farm Buildings, Dairies, Poultry Houses, etc., may be built with rapidity and economy with "POILITE" Sheets fixed to Timber Framing.

For internal Linings in all classes of Houses, Bell's "POILITE" Sheets are unsurpassed, being economical in first cost (saving at least 30 per cent. as compared with Lath and Plaster Linings), and capable of effective decorative treatment. Panelled out with wood mouldings they are attractive in appearance in the natural grey colour, and may be either papered or dis-tempered if a suitable priming is used.

For Wall and Ceiling Linings in Factories, Workshops or Offices, they entirely obviate the cracks and breakages occurring in Plaster Ceilings exposed to the vibration of machinery or to excessive heat or moisture.

Over 170,000,000 square feet have been used for National purposes by H.M. Government since 1913.

Approved by Ministry of Health.

*Fire Insurance on Poilite Buildings 1/6d.%.
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